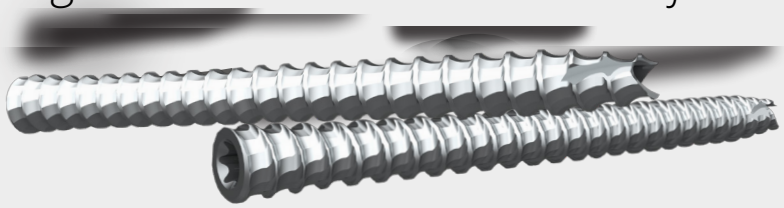
Diamond Orthopedic®

SPARTAN® MEDICAL

Fully Threaded Tapered Cannulated Headless Bone Screw

Engineered with Faceted Threadform Technology



DESIGN MATTERS

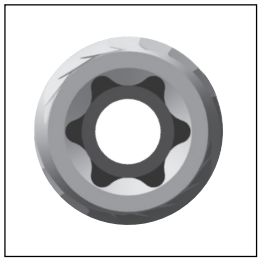
Sizes and Indications

Available Screw Sizes	
2.2mm	10mm to 40mm
3.0mm	20mm to 50mm
3.5mm	30mm to 60mm
4.5mm	40mm to 70mm

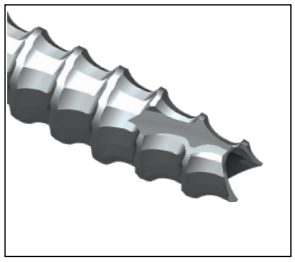
Note: 2.2mm screw increments are 2mm, all others 5mm

Indication	2.2mm	3.0mm	3.5mm	4.5mm
Arthrodesis				
Intercarpal Joint	●	●		
Distal Interphalangeal Joint (DIJ/DIP)	●	●	●	
Proximal Interphalangeal Joint (PIP/PIJ)	●	●		
Metacarpophalangeal Joint (MCP)	●	●	●	●
Fractures				
Metacarpal	●	●	●	●
Capitellum	●	●		
Proximal Phalanx	●	●		
Scaphoid	●	●		
Non-unions	●	●	●	●

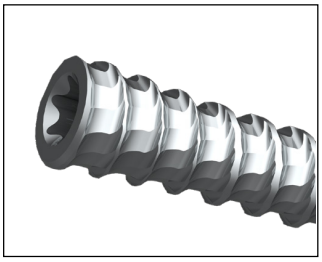
Faceted Threaded Screws Require 50% Less Insertion Torque



Recessed Torx/hexalobe drive heads for peak torque control and superb engagement



Simplified, precise surgical installation



Faceted geometry creates higher pullout strength for better fixation and lower insertion torque

VA Ref. No.	DoD Ref. No.	OEM	Description
CLIN01079	DLIN3861	SM5017	IO Fixation/Intra & Extra-Articular Fractures and non-unions Differential pitch headless screw (All Sizes / Lengths)
CLIN0569	DLIN3402	SM7253	Misc (Drill Bits, taps, counter sinks) Cannulated (each) (single use drill bits, taps, and countersinks – Cannulated)

SINGLE USE STERILE KIT

Introducing the Diamond Orthopedic Sterile Kit. Pre-sterilized, for single-use to treat a variety of hand indications. The only sterile kit on the market for use with Diamond Orthopedic's revolutionary faceted threadform technology.

- Single-use instruments
- Individually Boxed
- Double barrier
- Backer card mounted

drill bit

depth gauge

guidewires

61% GREATER PULLOUT STRENGTH AT 2 WEEKS

In an in vivo ovine study, the Diamond Orthopedic faceted screw demonstrated 61% greater pullout strength compared to the leading helical screw two weeks after surgery[A]

0 Weeks Post-Op [N/mm^3]

Diamond

Helical

20% Greater Pullout Strength

2 Weeks Post-Op [N/mm^3]

Diamond

Helical

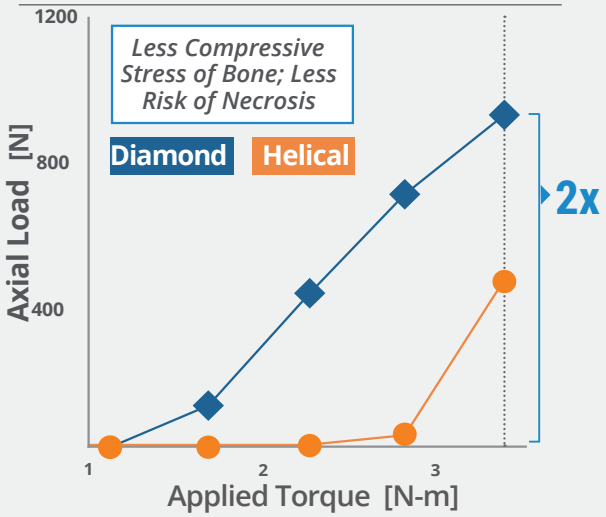
61% Greater Pullout Strength

[A] Based on in vivo ovine testing conducted at OrthoKinetic Testing Technologies as compared to market leading helical screw with same profile. Additional validation testing has been performed in non-biological substrates. Data on file.

2X TORQUE CONVERSION

Faceted Screw Achieved 2x Compression at 3.5Nm[B]

- Lower insertion torque reduces risk of bone necrosis
- 2X compression at bone interface versus traditional helical threads



LEARN MORE:
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